



OPEN EXAMINATION BULLETIN

RESEARCH SCIENTIST IV (MICROBIOLOGICAL SCIENCES)

FINAL FILING DATE: **JULY 30, 2003**

Bulletin Release Date: June 19, 2003

LR22-5612 3HA66

California State Government supports equal opportunity to all regardless of race, color, creed, national origin, ancestry, gender, marital status, disability, religious or political affiliation, age, or sexual orientation. It is the objective of the State of California to achieve a drug-free work place. Any applicant for state employment will be expected to behave in accordance with this objective because the use of illegal drugs is inconsistent with the law of the state, the rules governing civil service, and the special trust placed in public servants.

WHO SHOULD APPLY: Persons who meet the minimum qualifications (entrance requirements) as stated. This is an open examination. Applications will NOT be accepted on a promotional basis.

This examination will be used by multiple departments: The Department of Health Services, Department of Toxic Substances Control, and the California Department of Food and Agriculture.

HOW TO APPLY: To learn more about the job and testing arrangements, contact the testing office shown below. Applications are available and may be filed in person or by mail with:

	DEPARTMENT OF HEALTH SERVICES	(916) 552-8340
	SELECTION UNIT	
In Person:	1501 CAPITOL AVENUE, SUITE 71.1501	
By Mail:	MS 1301	
	P.O. BOX 942732	
	SACRAMENTO, CA 94234-7320	

DO NOT SUBMIT APPLICATIONS TO THE STATE PERSONNEL BOARD

SPECIAL TESTING INFORMATION: If you have a disability and need special testing arrangements, mark the appropriate box on the application Form STD. 678. You will be contacted to make specific arrangements.

FINAL FILING DATE: Applications must be submitted by **July 15, 2003**, the final filing date. Applications postmarked, personally delivered, or received via interoffice mail after the final filing date will not be accepted for any reason.

SALARY RANGES: \$5931 - \$7209 per month.

POSITION DESCRIPTION: Under administrative direction, incumbents plan, organize, and direct major scientific research studies that are complex and have statewide sensitivity and policy impact; make original, independent decisions on complex scientific problems using scientific theories and principles on association and risk, and then develop and test hypotheses on causes; and conceive, plan, and conduct scientific research work of large scope on a statewide or national basis that has extreme difficulty and complexity in unexplored areas of public health. The results of the applied scientific research can be used in public health prevention and control programs. Incumbents use their scientific expertise to plan, direct, and execute major professional public health research studies, and provide evaluations and scientific recommendations as a scientific expert. Scientific recommendations are normally accepted as sound without close review unless matters of policy are involved. Incumbents seek and analyze all relevant, available, scientific, technical, medical, and other information from sources within and outside the organization, and integrate this information into the decision-making process. If relevant information is not available, incumbents identify this shortfall to management, and develop proposed studies necessary to generate this information. Incumbents consult with department management and others in areas appropriate to their qualifications, and participate in the development of public health policy; provide consultation to departmental management and others as requested; make presentations to State public health experts and the community on the scientific research conducted, and also publish this research in scientific journals; act as a subject-matter expert in conducting public health scientific research that has the potential for adverse public health impact on community health; provide interpretations of scientific research findings for use by others; and perform other related work.

MICROBIOLOGICAL SCIENCES: Incumbents in this parenthetical are distinguished from other Research Scientists by being required to analyze and draw conclusions from research studies of the microbial, viral, and immunologic aspects of infectious diseases. Work in a subspecialty requires broad knowledge in a specific area of bacteriology, parasitology, mycology, virology, microscopy, molecular biology/microbial genetics, food, and water microbiology. Research study conclusions are used to improve detection and identification of infectious disease-causing microorganisms; define mechanisms and modes of infectious disease transmission; identify mechanisms of tissue injury; support improved investigation of infectious disease outbreaks; and improve methods to prevent infectious disease transmission.

REQUIREMENTS FOR ADMITTANCE TO THE EXAMINATION: It is your responsibility to make sure you meet the education and/or experience requirements stated below by **July 15, 2003**, the final filing date. Your signature on your application indicates that you have read, understood, and possess the basic qualifications required.

NOTE: Applications/resumes **MUST** contain the following information: "to" and "from" dates (month/day/year), time base, civil service class title(s), and range (if applicable). College course information **MUST** include: title, semester or quarter units, name of institution, completion dates, and degree.

Applications/resumes received without this information will be rejected.

MINIMUM QUALIFICATIONS: Qualifying experience may be combined on a proportionate basis if the following requirements include more than one pattern and are distinguished as "Either I," "or II," "or III," etc.

Either I

Experience: One year of experience in the California state service performing scientific research duties comparable to those of a Research Scientist III in the stated specialty or a closely related field. and Education: Possession of a doctoral degree in the stated specialty or a closely related field.

Or II

Experience: Four years of progressively responsible research experience in the stated specialty or in a closely related field. This experience must have included major responsibility for the design, conduct, and analysis of a large or highly complex and difficult research, and experience in the development, planning, and operation of a multidisciplinary, complex, and difficult research program involving coordination of several groups of disciplines, and preparation of major reports and scientific publications. (Possession of a recognized professional Board certification in the stated specialty or possession of a master's degree in Public Health or preventive medicine may be substituted for two years of the required experience.) At least one year of this experience must be at a level of responsibility equivalent to that of a Research Scientist III. and Education: Possession of a doctoral degree in the stated specialty or in a closely related field.

Or III

Experience: Four years of progressively responsible professional research experience in a field of medical specialization relevant to the stated specialty or in a closely related field. This experience must have included major responsibility for design, conduct, and analysis of complex research, or responsibility for the administration and coordination of large, complex multidisciplinary, or multi-institutional research programs. At least one year of this experience must be at a level of responsibility equivalent to that of a Research Scientist III. and Education: Possession of the degree of Doctor of Medicine.

The required education degree for all patterns must have been obtained from a recognized U.S. university or from a foreign university approved by the Bureau of Private Postsecondary and Vocational Education under the provision of California Education Code Chapter 3, Part 59, Division 10.

EXAMINATION INFORMATION: This examination consists of a Supplemental Application weighted 100%. Applicants are required to respond to the six supplemental items provided on pages 3 and 4 of this announcement. These supplemental items are designed to identify job achievement in specific areas that demonstrates ability to successfully perform at the Research Scientist IV (Microbiological Sciences) level. Responses to the supplemental items will be assessed based on pre-determined rating criteria. In appraising the relative qualifications of candidates, consideration will be given to the extent and type of pertinent experience and education over and above that required under "Minimum Qualifications."

ELIGIBLE LIST INFORMATION: In order to obtain a position on the eligible list, a minimum rating of 70 percent must be attained. Eligibility expires 24 months after it is established unless the needs of the service and conditions of the list warrant a change in this period.

VETERANS PREFERENCE: Veterans' preference credit will not be added since this does not qualify as an entrance exam.

SUPPLEMENTAL APPLICATION EXAMINATION: Each applicant for this examination must complete and submit his/her responses to all six supplemental items found on pages 3 and 4 of this announcement. Supplemental responses and your application must be postmarked, personally delivered, or received via interoffice mail by **July 15, 2003**, the final filing date. Applications received without supplemental responses will be rejected.

INSTRUCTIONS

When responding to the supplemental items please follow these guidelines:

- Your responses must be typewritten or generated by word processor on 8 1/2" x 11" paper.
- Your responses must be limited to one page per item.
- Identify each page with your full name.

- Make sure your responses are complete, specific, clear, and concise.
- Answer each numbered item separately and indicate the corresponding item number for each response. You may include multiple responses on a single page.
- Include place of employment, pertinent dates, duties performed, etc., when responding to items.
- In the event that one particular job contained responsibilities applicable to several items, separate the different functions of the job in order to answer all items completely.

NOTE: Resumes, letters, and other materials will NOT be evaluated or considered as responses to the supplemental items.

NOTE: Your Curriculum Vitae **must** be attached to the supplemental items.

SUPPLEMENTAL ITEMS

1. Describe your experience in performing public health research studies or investigations. Include in your response:
 - ◆ Purpose of scientific research or investigations
 - ◆ Independence of your actions
 - ◆ Technical information analyzed and steps used in conducting research or investigation
 - ◆ Scientific recommendations
 - ◆ Measurements of success
2. Describe your experience in performing as a scientific subject matters expert. Include in your response:
 - ◆ Types of public health issues analyzed
 - ◆ Frequency of scientific consultation
 - ◆ Independence of your actions
 - ◆ Public health impact of your recommendations
 - ◆ Measurements of success
3. Describe your experience in presenting scientific research, investigations or other public health information to both scientific and lay public audiences. Include in your response:
 - ◆ Purpose of scientific information
 - ◆ Scientific data sources used
 - ◆ Independence of action
 - ◆ Audience size and composition for presentation (scientific peers, government agencies, and the public)
 - ◆ Measurements of success
4. Describe your experience in publishing scientific research, investigations or other public health information in scientific journals or lay public publications. Include in your response:
 - ◆ Purpose of scientific information
 - ◆ Scientific data sources used
 - ◆ Independence of action
 - ◆ Frequency of scientific publications (once, twice)
 - ◆ Measurements of success
5. Describe your experience performing as a team leader or serving as a liaison while working with private, state, local, or federal agencies. Include in your response:
 - ◆ Description of public health research or scientific investigation workload
 - ◆ Your role and responsibilities
 - ◆ Number of team participants or liaison contacts
 - ◆ Scientific knowledge level of team or liaison contacts
 - ◆ Scientific solutions that you developed or coordinated
6. Describe your academic professional education that is relevant to the Research Scientist classification: In your response:
 - ◆ Identify any additional education beyond the doctoral level, such as master's in preventive medicine or public health.
 - ◆ For doctoral level academic education, please identify your area of academic education and the title of your thesis. Describe the research problem you evaluated and the conclusions of your research.
 - ◆ For doctoral level professional education, please identify residency training or other professional training programs that you completed. Include board or other certifications you possess.

GENERAL INFORMATION

Applications are available at the State Personnel Board office, through the Internet at <http://www.spb.ca.gov>, at local offices of the Employment Development Department, and the Department noted on this announcement.

If you meet the requirements stated on this announcement, you may take this examination. Possession of the entrance requirement does not assure a place on the eligible list. All candidates who pass will be ranked according to their scores.

The Department of Health Services reserves the right to revise the examination plan to better meet the needs of the service if the circumstances under which this examination was planned change. Such revision will be in accordance with civil service law and rules and all competitors will be notified.

Eligible Lists: Eligible lists established by competitive examination, regardless of date, must be used in the following order: sub-divisional promotional, 2) departmental promotional, 3) multi-departmental promotional, 4) service-wide promotional, 5) departmental open, and 6) open. When there are two lists of the same kind, the older must be used first. Eligible lists will expire in from one to four years unless otherwise stated on this announcement.

General Qualifications: Candidates must possess essential personal qualifications including integrity, initiative, dependability, good judgment, ability to work cooperatively with others, and a state of health consistent with the ability to perform the assigned duties of the class. A medical examination may be required.

Veteran's Preference: California law allows granting of veterans' preference points in open entrance examinations and open nonpromotional examinations. Credit in open examinations is granted as follows: 10 points for veterans, widows and widowers of veterans, and spouses of 100% disabled veterans; and 15 points for disabled veterans. Credit in open nonpromotional examinations is granted as follows: five (5) points for veterans, and 10 points for disabled veterans. Directions for applying for veterans preference points are on the Veteran Preference Application Form 1093 which is available from State Personnel Board Offices, written test proctors, and the Department of Veterans Affairs, P.O. Box 942895, Sacramento, CA 94295-0001.

TDD is Telecommunications Device for the Deaf and is reachable only from phones equipped with a TDD Device.

The California Relay (Telephone) Service for the Deaf or Hearing Impaired:

MCI From TDD: 1-800-735-2929 MCI From VOICE TELEPHONE: 1-800-735-2922

Sprint From TDD: 1-888-877-5378 Sprint From Voice Telephone: 1-888-877-5379